

Fig. 1

XP43 1:NDVARGIVKADVAQSSYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDTNGHCTHVAGSVLNGGATNKGMAPQA 90
KP9860 1:NDVARGIVKADVAQSSYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDTNGHCTHVAGSVLNGGATNKGMAPQA 90
KP9865 1:NDVARGIVKADVAQSSYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDTNGHCTHVAGSVLNGGATNKGMAPQA 90
E-1 1:NDVARGIVKADVAQNNYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDPNGHCTHVAGSVLNGALNKG-MAPQA 89
Ya 1:NDVARGIVKADVAQNNYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNASDPNGHCTHVAGSVLNGALNKG-MAPQA 89
SD-521 1:NDVARGIVKADVAQNNYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDPNGHCTHVAGSVLNGGATNKGMAPQA 89
A-1 1:NDVARGIVKADVAQSSYGLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDPNGHCTHVAGSVLNGGATNKGMAPQA 90
A-2 1:NDVARGIVKADVAQNNFCLYGCGQIVAVADTGLDTGRNDSMHEAFRGKITALLYALGRITNNANDPNGHCTHVAGSVLNGGATNKGMAPQA 89

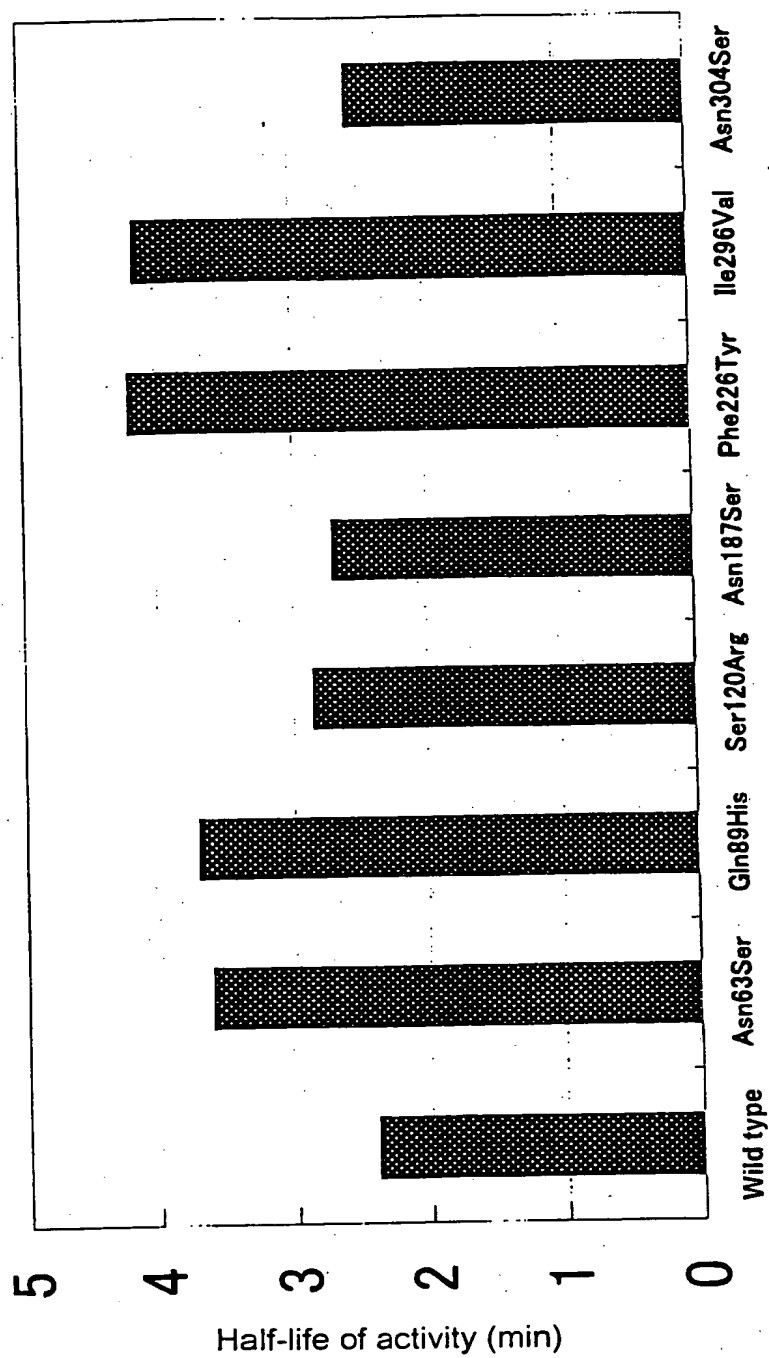
KP43 91:NLVFGSINDSGGGLGGLPSNLQTLFSQAYSAGARIHTNSWGAAPVNGAYTTDSRNVDYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 180
KP9860 91:NLVFGSINDSGGGLGGLPSNLQTLFSQAYSAGARIHTNSWGAAPVNGAYTTDSRNVDYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 180
KP9865 91:NLVFGSINDSGGGLGGLPSNLQTLFSQAYSAGARIHTNSWGAAPVNGAYTTDSRNVDYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 180
E-1 90:NLVFGSINDSGGGLGGLPSNLQTLFSQAWNACARIHTNSWGAAPVNGAYTTANSRQVDEYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 179
Ya 90:NLVFGSINDSGGGLGGLPSNLQTLFSQAWNACARIHTNSWGAAPVNGAYTTANSRQVDEYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 179
SD-521 90:NLVFGSINDSGGGLGGLPSNLQTLFSQAWNACARIHTNSWGAAPVNGAYTTANSRQVDEYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 179
A-1 91:NLVFGSINDSGGGLGGLPSNLQTLFSQAYSAGARIHTNSWGAAPVNGAYTTDSRNVDYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 180
A-2 90:NLVFGSINDSGGGLGGLPSNLQTLFSQAYSAGARIHTNSWGAAPVNGAYTTDSRNVDYVRNDMTILFAAGNEGPNCGTISAPGTAJQAI 179

KP43 181:TVGATENLRPSFGSYADNINEVAQFS SRGPTKDGRIKPDVMAFGCTILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 270
KP9860 181:TVGATENLRPSFGSYADNINEVAQFS SRGPTKDGRIKPDVMAFGCTILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 270
KP9865 181:TVGATENLRPSFGSYADNINEVAQFS SRGPTKDGRIKPDVMAFGCTILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 270
E-1 180:TVGATENLRPSFGSYADNINEVAQFS SRGATRDGRIKPDVTAFCGTFILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 269
Ya 180:TVGATENLRPSFGSYADNINEVAQFS SRGATRDGRIKPDVTAFCGTFILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 269
SD-521 180:TVGATENLRPSFGSYADNINEVAQFS SRGATRDGRIKPDVTAFCGTFILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 269
A-1 181:TVGATENLRPSFGSYADNINEVAQFS SRGPTKDGRIKPDVMAFGCTILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 270
A-2 180:TVGATENLRPSFGSYADNINEVAQFS SRGPTKDGRIKPDVMAFGCTILSARSSLAPDSSFWANHDSKYATMGCTSMATPIVAGNVAQLRE 269

KP43 271:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 360
KP9860 271:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 360
KP9865 271:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 360
E-1 270:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 359
Ya 270:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 359
SD-521 270:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 359
A-1 271:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 360
A-2 270:BFVIONRGITPKPSLLKALIAAGADIGLGYPNQNGQGRVTLDKSLNVAIVNIESSSLSTSQRATYSFTATAGKPLKISLVWSDAPASTIA 359

KP43 361:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 434
KP9860 361:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 434
KP9865 361:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 434
E-1 360:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 433
Ya 360:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 433
SD-521 360:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 433
A-1 361:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 434
A-2 360:SVTLVNDLQDLVI TAPNCTQYVGNDFSPYDNNDWGRNNVENVFINAPQSGTITIEVQAYNVFVPGQTFSLAIVN 433

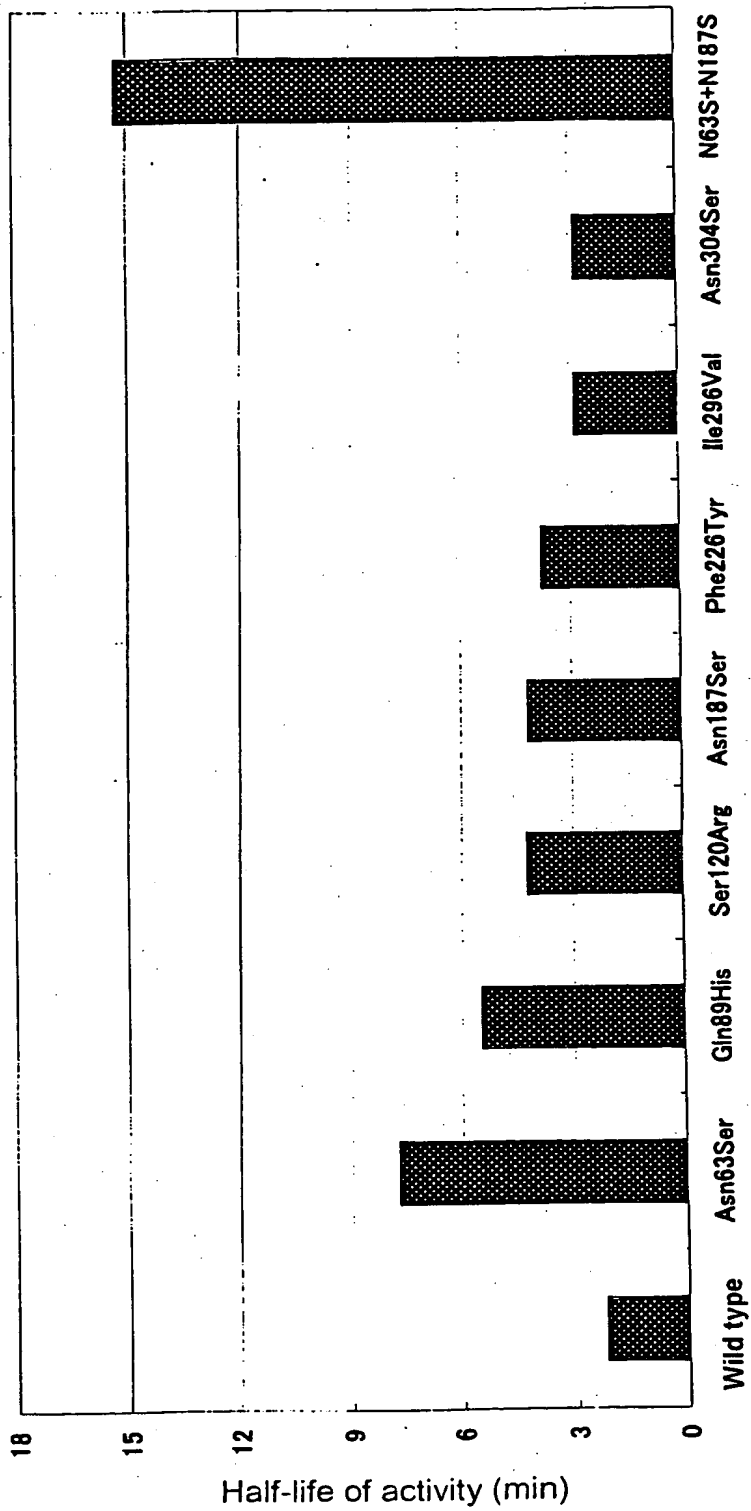
Fig.2



Example enzymes

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Fig.3



Example enzymes

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